Attorney Docket No.: <u>NEI-00105</u>

## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-30 (canceled).

- 31. (currently amended) A method of selectively and sequentially dispensing a plurality of reagent solutions to a plurality of vials divided into a first bank of vials and a second bank of vials and selectively purging material from the first bank of vials and the second bank of vials, comprising the steps of:
  - a. providing a multi-well synthesizer including a controller, a plurality of vials divided into a first bank of vials and a second bank of vials, a plurality of valves for delivering reagent solutions to selective vials, a first drain corresponding to the first bank of vials, a second drain corresponding to the second bank of vials and a waste tube;
  - <u>b. a.</u> dispensing one or more of the plurality of reagent solutions <u>through a selective</u> one of the plurality of valves to a selective one or more of the plurality of vials, to perform synthesis within the selective one or more of the plurality of vials;
  - c. b. coupling a waste tube to a selective one of a the first drain and a the second drain within a purging system, wherein the first drain is associated with the first bank of vials and the second drain is associated with the second bank of vials, wherein coupling comprises by moving the waste tube to the selective one of the first drain and the second drain until the waste tube is coupled with the selective one of the first drain and the second drain; and
  - <u>d. e.</u> purging material from the selected one of the first bank of vials and the second bank of vials through the purging system.
- 32. (currently amended) The method according to claim 31 wherein the step of dispensing is performed in a parallel fashion when one of the plurality of reagent solutions is dispensed into more than one of the plurality of vials.

Attorney Docket No.: <u>PATENT</u> NEI-00105

33. (currently amended) The method according to claim 31 wherein during the step of dispensing one or more of the plurality of reagent solutions are dispensed into one or more of the plurality of vials in a serial fashion.

- 34. (currently amended) A method of selectively purging material from a selective one of a first vial and a second vial in which synthesis is taking place comprising the steps of:
  - a. providing a multi-well rotary synthesizer including a controller, a first vial, a second vial, a plurality of valves for delivering reagent solutions to a selective one of the first vial and the second vial, a first drain corresponding to the first vial, a second drain corresponding to the second vial and a waste tube;
  - b. a: coupling a selective one of a the first drain and a the second drain with a the waste tube, wherein the first drain is associated with the first vial and the second drain is associated with the second vial, wherein coupling comprises by moving the selective one of the first drain and the second drain to the waste tube until the selective one of the first drain and the second drain is coupled with the waste tube;
  - c. b. forming a pressure differential between an interior and an exterior of the selective one of the first vial and the second vial, thereby expelling material from the selective one of the first vial and the second vial through the waste tube; and
  - d. e. uncoupling the selective one of the first drain and the second drain from the waste tube after the material has been purged.
- 35. (currently amended) The method according to claim 31 wherein the step of purging material includes generating a pressure differential within the selective one of the first bank of vials and the second bank of vials.

## 36. (canceled)

37. (currently amended) The method according to claim 31 further comprising the step of forming a pressure differential between an interior and an exterior of the selective one of the first bank of vials and the second bank of vials, thereby expelling material from the selective one of the first bank of vials and the second bank of vials through the waste tube.

Attorney Docket No.: <u>PATENT</u> NEI-00105

38. (currently amended) The method according to claim 31 further comprising the step of uncoupling the waste tube from the selective one of the first drain and the second drain after the material has been purged.

- 39. (currently amended) A method of selectively and sequentially dispensing a plurality of reagent solutions to a plurality of vials divided into a first bank of vials and a second bank of vials and selectively purging material from the first bank of vials and the second bank of vials, comprising:
  - a. providing a multi-well synthesizer including a controller, a plurality of vials divided into a first bank of vials and a second bank of vials, a plurality of valves for delivering reagent solutions to selective vials, a first drain corresponding to the first bank of vials, a second drain corresponding to the second bank of vials and a waste tube;
  - b. a. dispensing one or more of the plurality of reagent solutions to a selective one or more of the plurality of vials, to perform synthesis within the selective one or more of the plurality of vials;
  - coupling a selective one of a the first drain and a the second drain with a the waste tube, wherein the first drain is associated with the first bank of vials and the second drain is associated with the second bank of vials, wherein coupling comprises by moving the selective one of the first drain and the second drain to the waste tube until the selective one of the first drain and the second drain is coupled with the waste tube; and
  - d. e. purging material from the selected one of the first bank of vials and the second bank of vials.
- 40. (previously presented) The method according to claim 39 wherein dispensing is performed in a parallel fashion when one of the plurality of reagent solutions is dispensed into more than one of the plurality of vials.
- 41. (previously presented) The method according to claim 39 wherein during dispensing, one or more of the plurality of reagent solutions are dispensed into one or more of the plurality of vials in a serial fashion.

Attorney Docket No.: PATENT NEI-00105

42. (previously presented) A method of selectively purging material from a selective one of a first vial and a second vial in which synthesis is taking place comprising:

- a. providing a multi-well rotary synthesizer including a controller, a first vial, a second vial, a plurality of valves for delivering reagent solutions to a selective one of the first vial and the second vial, a first drain corresponding to the first vial, a second drain corresponding to the second vial and a waste tube;
- b. a. coupling a the waste tube to a selective one of a the first drain corresponding to the first vial and a the second drain corresponding to the second vial, wherein coupling comprises by moving the waste tube to the selective one of the first drain and the second drain until the waste tube is coupled with the selective one of the first drain and the second drain; and
- c. b. forming a pressure differential between an interior and an exterior of the selective one of the first vial and the second vial, thereby expelling material from the selective one of the first vial and the second vial through the waste tube.
- 43. (previously presented) The method according to claim 42 further comprising uncoupling the waste tube from the selective one of the first drain and the second drain after the material has been purged.

## 44. (canceled)

- 45. (currently amended) The method according to claim 31 further comprising the step of uncoupling the waste tube from the selective one of the first drain and the second drain.
- 46. (currently amended) A method of selectively purging material from a selective one of a first vial and a second vial in which synthesis is taking place comprising:
  - a. providing a multi-well rotary synthesizer including a controller, a first vial, a second vial, a plurality of valves for delivering reagent solutions to a selective one of the first vial and the second vial, a first drain corresponding to the first vial, a second drain corresponding to the second vial and a waste tube;
  - b. a. coupling a selective one of a the first drain and a the second drain with a the waste tube, wherein the first drain is associated with the first vial and the second drain is associated with the second vial, wherein coupling comprises by moving the

selective one of the first drain and the second drain to the waste tube until the selective one of the first drain and the second drain is coupled with the waste tube; and

- c. b. forming a pressure differential between an interior and an exterior of the selective one of the first vial and the second vial, thereby expelling material from the selective one of the first vial and the second vial through the waste tube.
- 47. (currently amended) A method of selectively purging material from a selective one of a first vial and a second vial in which synthesis is taking place comprising:
  - a. providing a multi-well rotary synthesizer including a controller, a first vial, a second vial, a plurality of valves for delivering reagent solutions to a selective one of the first vial and the second vial, a first drain corresponding to the first vial, a second drain corresponding to the second vial and a waste tube;
  - <u>b.</u> a: coupling a <u>the</u> waste tube with a selective one of a <u>the</u> first drain and a <u>the</u> second drain, wherein the first drain is associated with the first vial and the second drain is associated with the second vial, wherein coupling comprises <u>by</u> moving the waste tube to the selective one of the first drain and the second drain until the waste tube is coupled with the selective one of the first drain and the second drain;
  - c. b. forming a pressure differential between an interior and an exterior of the selective one of the first vial and the second vial, thereby expelling material from the selective one of the first vial and the second vial through the waste tube; and
  - d. e. uncoupling the waste tube from the selective one of the first drain and the second drain after the material has been purged.
- 48. (currently amended) A method of selectively purging material from a selective one of a first vial and a second vial in which synthesis is taking place comprising:
  - a. providing a multi-well rotary synthesizer including a controller, a first vial, a second vial, a plurality of valves for delivering reagent solutions to a selective one of the first vial and the second vial, a first drain corresponding to the first vial, a second drain corresponding to the second vial and a waste tube;
  - b. a. coupling a the waste tube with a selective one of a the first drain and a the second drain, wherein the first drain is associated with the first vial and the second drain corresponds to the second vial, wherein coupling comprises by moving the waste

tube to the selective one of the first drain and the second drain until the waste tube is coupled with the selective one of the first drain and the second drain; and

- c. b. purging material from the selective one of the first vial and the second vial through the waste tube.
- 49. (currently amended) A method of selectively purging material from a selective one of a first vial and a second vial in which synthesis is taking place comprising:
  - a. providing a multi-well rotary synthesizer including a controller, a first vial, a second vial, a plurality of valves for delivering reagent solutions to a selective one of the first vial and the second vial, a first drain corresponding to the first vial, a second drain corresponding to the second vial and a waste tube;
  - b. a: coupling a selective one of a the first drain and a the second drain with a the waste tube, wherein the first drain is associated with the first vial and the second drain is associated with the second vial, wherein coupling comprises by moving the selective one of the first drain and the second drain to the waste tube until the selective one of the first drain and the second drain is coupled with the waste tube; and
  - <u>c.</u> b. purging material from the selective one of the first vial and the second vial through the waste tube.